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Serial No. 10/789,956 Docket No. SHE0081.00

## **AMENDMENTS**

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## In the Claims:

Please amend claims 1 and 26-30 as indicated below. Currently amended claims are presented with markings to indicate the changes made, wherein a strikethrough is used to designate deletions and <u>underlining</u> is used to designate additions.

- 1. (Currently Amended) A conjugate comprising one, two or three water-soluble polymers covalently attached to a Factor VIII moiety, wherein each water-soluble polymer has a nominal average molecular weight in the range of from 6,000 Daltons to 150,000 Daltons and further wherein the conjugate is a 1-mer, 2-mer or 3-mer.
- 2. (Previously Presented) The conjugate of claim 1, wherein each water-soluble polymer in each conjugate is selected from the group consisting of a poly(alkylene oxide), poly(vinyl pyrrolidone), poly(vinyl alcohol), polyoxazoline, and poly(acryloylmorpholine).
- 3. (Previously Presented) The conjugate of claim 2, wherein each water-soluble polymer is a poly(alkylene oxide).
- 4. (Previously Presented) The conjugate of claim 3, wherein each poly(alkylenc oxide) is a poly(ethylene glycol).
- 5. (Previously Presented) The conjugate of claim 4, wherein the poly(ethylene glycol) is terminally capped with an end-capping moiety selected from the group consisting hydroxy, alkoxy, substituted alkoxy, alkenoxy, substituted alkenoxy, alkynoxy, substituted alkynoxy, aryloxy and substituted aryloxy.
- 6. (Previously Presented) The conjugate of claim 4, wherein the poly(ethylene glycol) is terminally capped with methoxy.

- 7. (Previously Presented) The conjugate of claim 4, wherein the poly(ethylene glycol) is terminally capped with hydroxy.
- 8. (Previously Presented) The conjugate of claim 4, wherein the poly(ethylene glycol) has a nominal average molecular weight in the range of from 6,000 Daltons to 100,000 Daltons.
- 9. (Previously Presented) The conjugate of claim 8, wherein the poly(ethylene glycol) has a nominal average molecular weight in the range of from 10,000 Daltons to 85,000 Daltons.
- 10. (Previously Presented) The conjugate of claim 9, wherein the poly(ethylene glycol) has a nominal average molecular weight in the range of from 20,000 Daltons to 85,000 Daltons.
- 11. (Previously Presented) The conjugate of claim 10, wherein the poly(ethylene glycol) has a nominal average molecular weight in the range of from 53,000 Daltons to 75,000 Daltons.
- 12. (Previously Presented) The conjugate of claim 3, wherein each water-soluble polymer is linear.
- 13. (Previously Presented) The conjugate of claim 3, wherein each water-soluble polymer is branched.
- 14. (Previously Presented) The conjugate of claim 3, wherein the Factor VIII moiety is selected from the group consisting of Factor VIII, Factor VIIIa, Factor VIII:C, Factor VIII:vWF, and B-domain deleted Factor VIII.
- 15. (Previously Presented) The conjugate of claim 14, wherein the Factor VIII moiety is selected from the group consisting of Factor VIII, Factor VIIIa, Factor VIII:C, and Factor VIII:vWF.
- 16. (Previously Presented) The conjugate of claim 14, wherein the Factor VIII moiety is B-domain deleted Factor VIII.

- 17. (Previously Presented) The conjugate of claim 3, wherein the Factor VIII moiety is recombinantly derived.
- 18. (Previously Presented) The conjugate of claim 3, wherein the Factor VIII moiety is blood-derived.
- 19. (Previously Presented) The composition of claim 62, wherein the composition is substantially free of albumin.
- 20. (Previously Presented) The composition of claim 62, wherein the composition is substantially free of proteins that do not have Factor VIII activity.
- 21. (Previously Presented) The composition of claim 62, wherein the composition is substantially free of noncovalently attached water-soluble polymers.
- 22. (Previously Presented) The composition of claim 62, wherein at least one water-soluble polymer is covalently attached to a site in the active form of the moiety having Factor VIII activity.
  - 23. (Previously Presented) The composition of claim 62, in lyophilized form.
  - 24. (Previously Presented) The composition of claim 62, in the form of a liquid.
- 25. (Previously Presented) The composition of claim 62, further comprising a pharmaceutically acceptable excipient.
- 26. (Currently Amended) The conjugate of claim 1, wherein each conjugate comprises the one, two or three water-soluble polymers are covalently attached by an amide linkage.

- 27. (Currently Amended) The conjugate of claim 1, wherein each conjugate comprises the one, two or three water-soluble polymers are covalently attached by a secondary amine linkage.
- 28. (Currently Amended) The conjugate of claim 1, wherein each conjugate comprises the one, two or three water-soluble polymers are covalently attached by a carbamate linkage.
- 29. (Currently Amended) The conjugate of claim 1, wherein each conjugate comprises the one, two or three water-soluble polymers are covalently attached by a thioether linkage.
- 30. (Currently Amended) The conjugate of claim 1, wherein each conjugate comprises the one, two or three water-soluble polymers are covalently attached by a disulfide linkage.
- 31. (Withdrawn) A composition comprising a plurality of monoPEGylated Factor VIII moiety conjugates.
- 32. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII moiety conjugate comprises one poly(ethylene glycol) terminally capped with an end-capping moiety selected from the group consisting hydroxy, alkoxy, substituted alkoxy, alkenoxy, substituted alkenoxy, substituted alkenoxy, aryloxy and substituted aryloxy.
- 33. (Withdrawn) The composition of claim 31, wherein the poly(ethylene glycol) is terminally capped with methoxy.
- 34. (Withdrawn) The composition of claim 31, wherein the poly(ethylene glycol) is terminally capped with hydroxy.
- 35. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII moiety conjugate comprises a poly(ethylene glycol) having a nominal average molecular weight in the range of greater than 5,000 Daltons to about 150,000 Daltons.

- 36. (Withdrawn) The composition of claim 35, wherein the poly(ethylene glycol) has a nominal average molecular weight in the range of from about 6,000 Daltons to about 100,000 Daltons.
- 37. (Withdrawn) The composition of claim 36, wherein the poly(ethylene glycol) has a nominal average molecular weight in the range of from about 10,000 Daltons to about 85,000 Daltons.
- 38. (Withdrawn) The composition of claim 37, wherein the poly(ethylene glycol) has a nominal average molecular weight in the range of from about 20,000 Daltons to about 85,000 Daltons.
- 39. (Withdrawn) The composition of claim 38, wherein the poly(ethylene glycol) has a nominal average molecular weight in the range of from about 53,000 Daltons to about 75,000 Daltons.
- 40. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII moiety conjugate comprises a linear poly(ethylene glycol).
- 41. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII molety comprises a branched poly(ethylene glycol).
- 42. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII moiety conjugate comprises a Factor VIII moiety selected from the group consisting of Factor VIII, Factor VIII, Factor VIII; Pactor VIII; Pactor VIII; Pactor VIII, and biologically active fragments, deletion variants, substitution variants or addition variants of any of the foregoing.
- 43. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII moiety conjugate comprises a Factor VIII moiety selected from the group consisting of Factor VIII, Factor VIIIa, Factor VIIIC, and Factor VIII:vWF.

- 44. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII moiety conjugate comprises B-domain deleted Factor VIII.
- 45. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII moiety conjugate comprises a Factor VIII moiety that is recombinantly derived.
- 46. (Withdrawn) The composition of claim 31, wherein each monoPEGylated Factor VIII moiety conjugate comprises a Factor VIII moiety that is blood-derived.
- 47. (Withdrawn) The composition of claim 31, wherein the composition is substantially free of albumin.
- 48. (Withdrawn) The composition of claim 31, wherein the composition is substantially free of proteins that do not have Factor VIII activity.
- 49. (Withdrawn) The composition of claim 31, wherein the composition is substantially free of noncovalently attached water-soluble polymers.
  - 50. (Withdrawn) The composition of claim 31, in lyophilized form.
  - 51. (Withdrawn) The composition of claim 31, in the form of a liquid.
- 52. (Withdrawn) The composition of claim 31, further comprising a pharmaceutically acceptable excipient.
- 53. (Withdrawn) The composition of claim 31, wherein each conjugate comprises an amide linkage.
- 54. (Withdrawn) The composition of claim 31, wherein each conjugate comprises a secondary amine linkage.

- 55. (Withdrawn) The composition of claim 31, wherein each conjugate comprises a carbamate linkage.
- 56. (Withdrawn) The composition of claim 31, wherein each conjugate comprises a thioether linkage.
- 57. (Withdrawn) The composition of claim 31, wherein each conjugate comprises a disulfide linkage.
- 58. (Withdrawn) A method for making a conjugate comprising contacting, under conjugation conditions, a Factor VIII moiety with a polymeric reagent.
- 59. (Withdrawn) A method for treating a patient in need of Factor VIII therapy, comprising the step of administering to the patient the composition of claim 1 or claim 31, wherein the composition contains a therapeutically effective amount the conjugates.
- 60. (Withdrawn) The method of claim 59, wherein the patient is suffering from hemophilia A.
- 61. (Withdrawn) The method of claim 59, wherein the patient is administered the composition within two days prior to undergoing surgery.
  - 62. (Previously Presented) A composition comprising the conjugate of claim 3.

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